Sunrise Wind | Powered by Ørsted & Eversource

Appendix A: Sunrise Wind Cumulative Visual Simulations

BI04: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: 2023 and 2024 Project Construction (Revolution Wind, South Fork Wind, Vineyard Wind North, and New England Wind Phase 1&2)

Simulation Size: 64” in width by 29.3” in height. Images should be viewed from a distance of 15 inches in order to obtain the proper perspective.

This box should be exactly 1” long on the printed panorama

Environmental Data

Date Taken: 9/10/2017
Time: 12:20 PM
Temperature: 68°F
Humidity: 63%
Visibility: ≥10 miles
Wind Direction: Northeast
Wind Speed: 8 mph
Conditions Observed: Clear

Camera Information

Camera: Canon EOS 5D Mark IV
Resolution: 30.4 Megapixels
Lens Focal Length: 50 mm
Camera Height: 161.1 feet AMSL

Key Observation Point Information

County: Washington
Town: New Shoreham
State: Rhode Island
Location: Block Island
Latitude, Longitude: 41.15281° N, 71.55185° W
Direction of View (Center): East (98.9°)
Field of View: 124° x 55°

Visual Resources

Landscape Similarity Zone: Maintained Recreation Area, Coastal Bluff
User Group: Local Resident, Tourist/Vacationers
Aesthetic Resource: Southeast Light National Historic Landmark, Mohegan Bluffs Scenic Area

Notes:

- Photosimulation Size: 64” in width by 29.3” in height. Images should be viewed from 15 inches in order to obtain the proper perspective.
- The potential number of WTGs and OSSs screened from view was calculated using a curvature of the earth model based on the distance, viewer height, and maximum structure height. This analysis does not consider the screening effects of intervening vegetation, structures, and topography.
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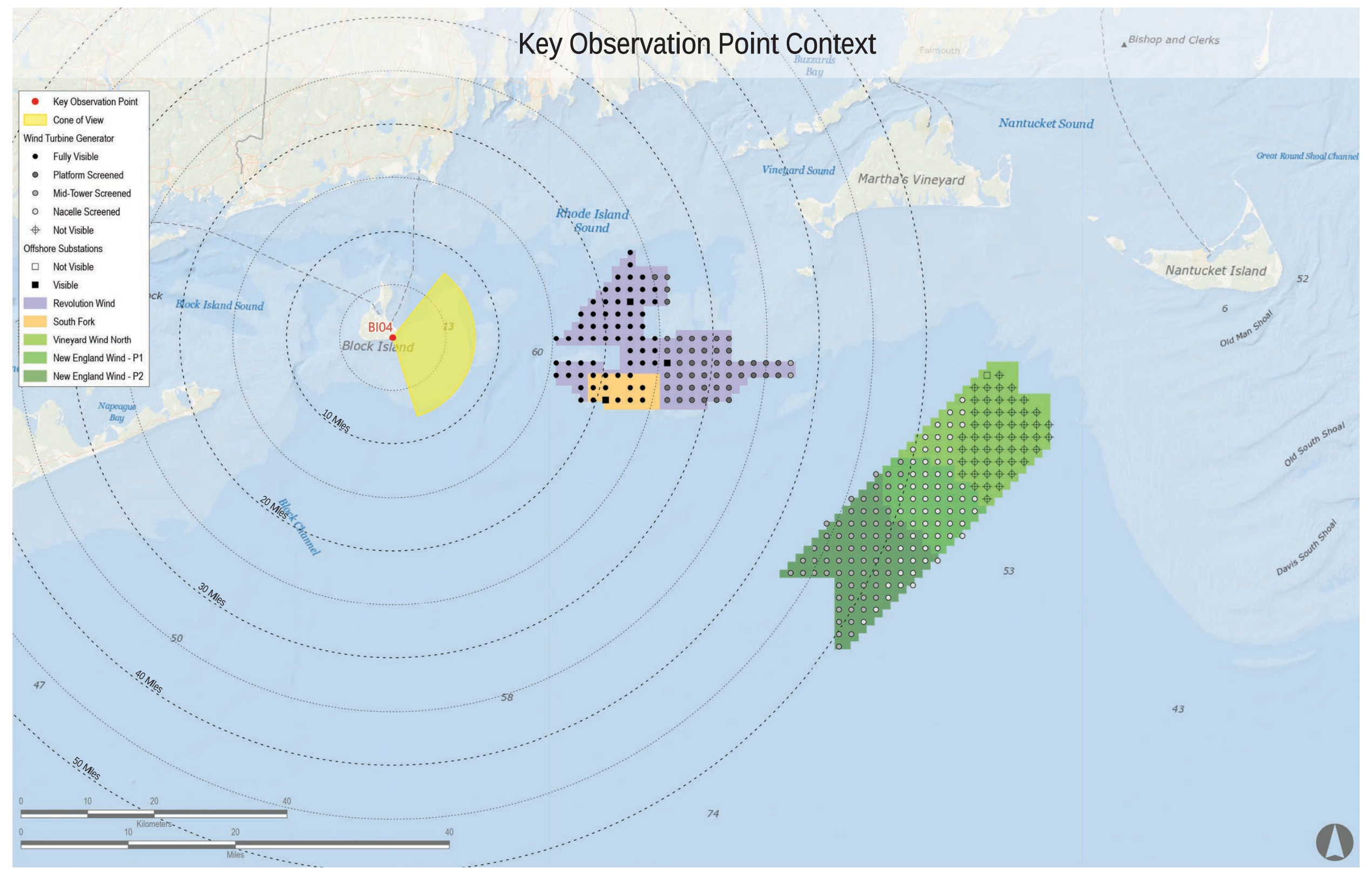
- Photographs were not obtained from NL01 during field review due to public access restrictions. In place of an actual photograph from this location, EDR created a virtual three-dimensional (3D) model of the island.

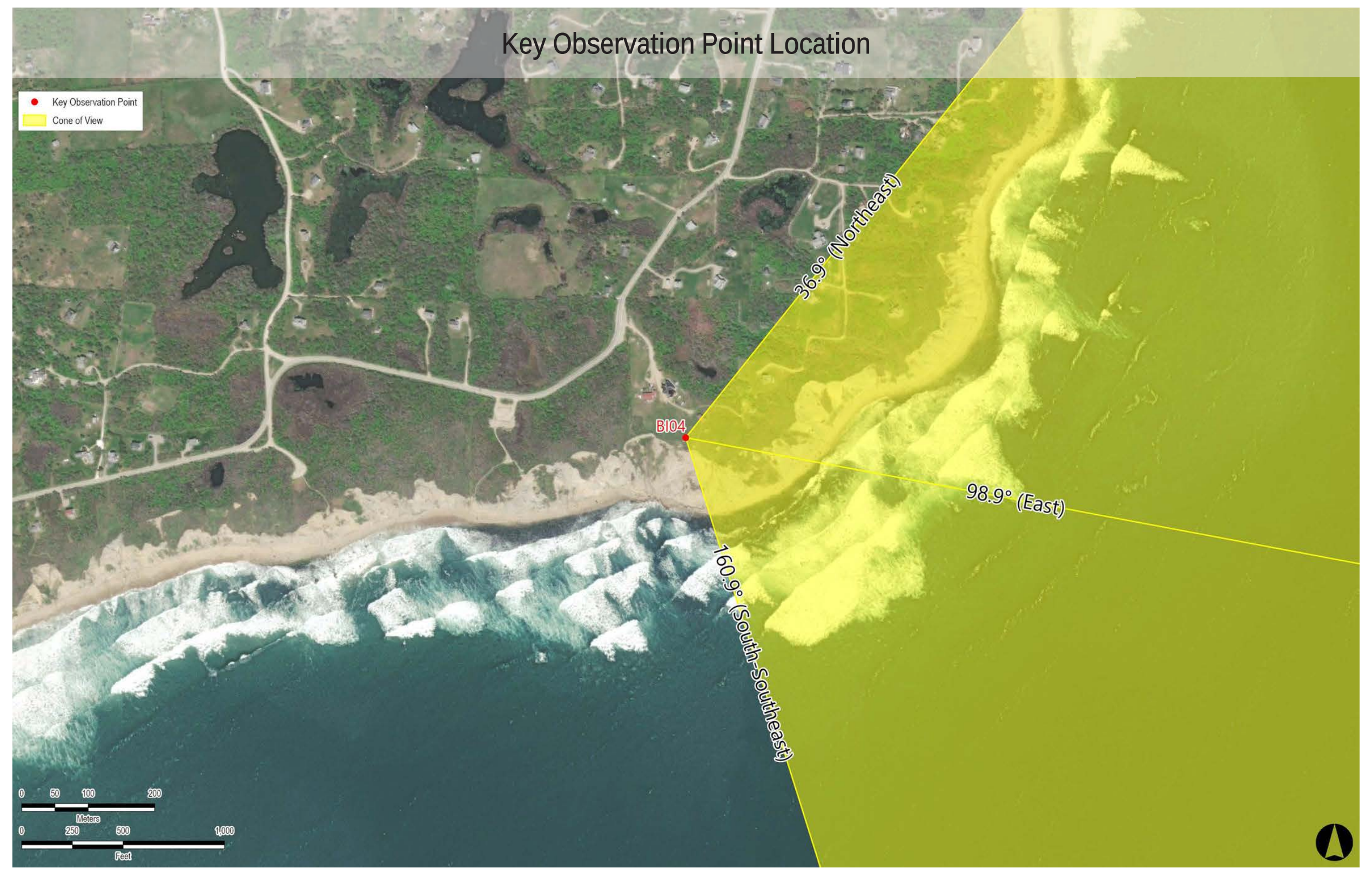
Reasonably Foreseeable Projects Represented in Visual Simulation

Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
South Fork Wind Farm	2023	12 MW	13	13	19.0	24.0
Vineyard Wind North	2023	14 MW	15	69	49.6	53.7
Revolution Wind	2023	12 MW	102	102	15.2	37.2
New England Wind Phase 1	2024	16 MW	41	41	48.0	56.6
New England Wind Phase 2	2024	19 MW	79	79	43.1	54.9

Key Observation Point Context



Key Observation Point Location



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Appendix A: Sunrise Wind Cumulative Visual Simulations

BI04: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: 2023 and 2024 Project Construction with Sunrise Wind added (Sunrise Wind, Revolution Wind, South Fork Wind, Vineyard Wind North, and New England Wind Phase 1&2)

Simulation Size: 64” in width by 29.3” in height. Images should be viewed from a distance of 15 inches in order to obtain the proper perspective.

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Wind Direction: Northeast
Wind Speed: 8 mph
Conditions Observed: Clear

Key Observation Point Information

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Town: New Shoreham
State: Rhode Island
Location: Block Island
Latitude, Longitude: 41.15281° N, 71.55185° W
Direction of View (Center): East (98.9°)
Field of View: 124° x 55°

Camera Information

Camera: Canon EOS 5D Mark IV
Resolution: 30.4 Megapixels
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Visual Resources

Landscape Similarity Zone: Maintained Recreation Area, Coastal Bluff
User Group: Local Resident, Tourist/Vacationers
Aesthetic Resource: Southeast Light National Historic Landmark, Mohegan Bluffs Scenic Area

Notes:

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Reasonably Foreseeable Projects Represented in Visual Simulation

Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
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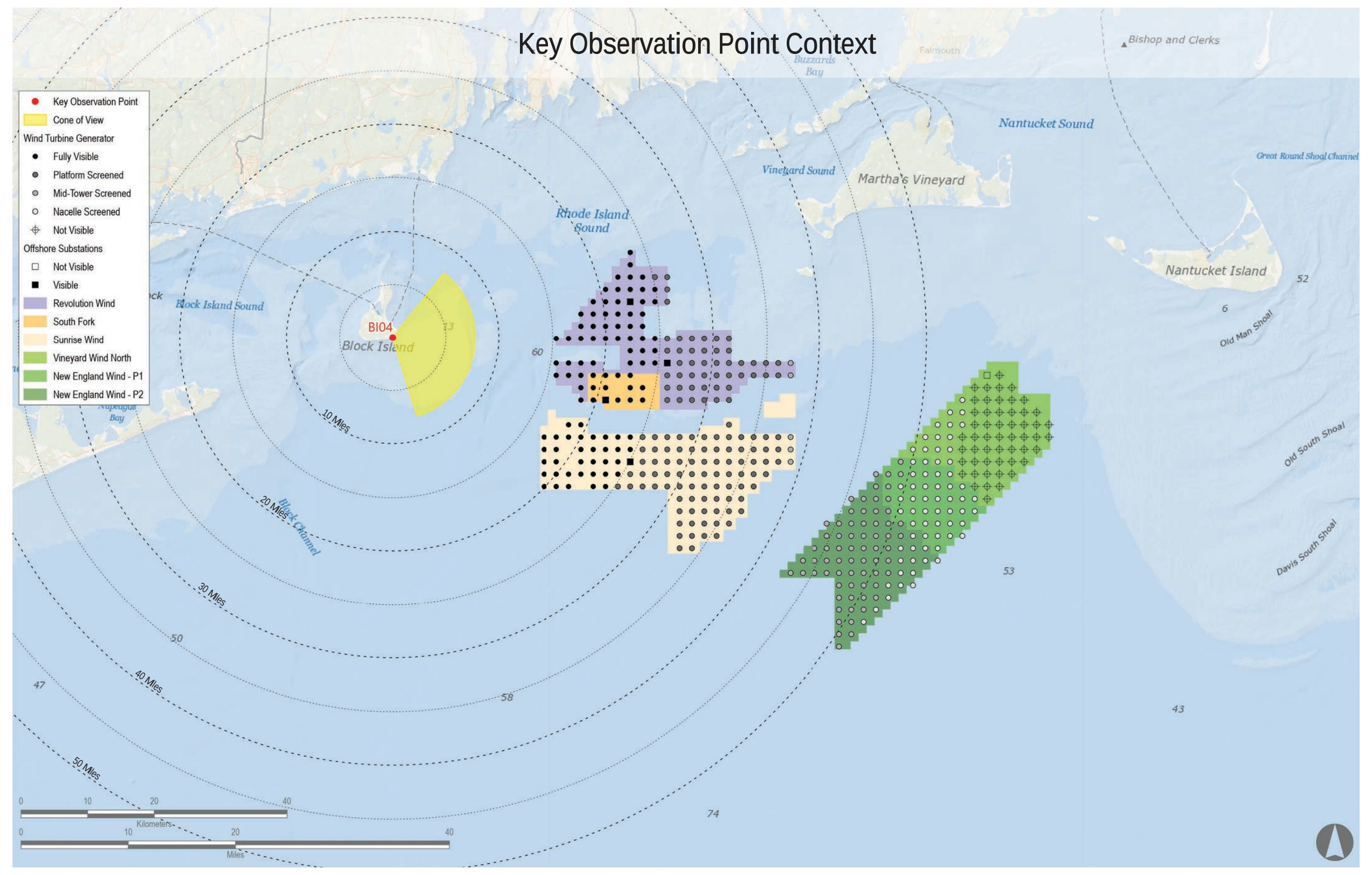
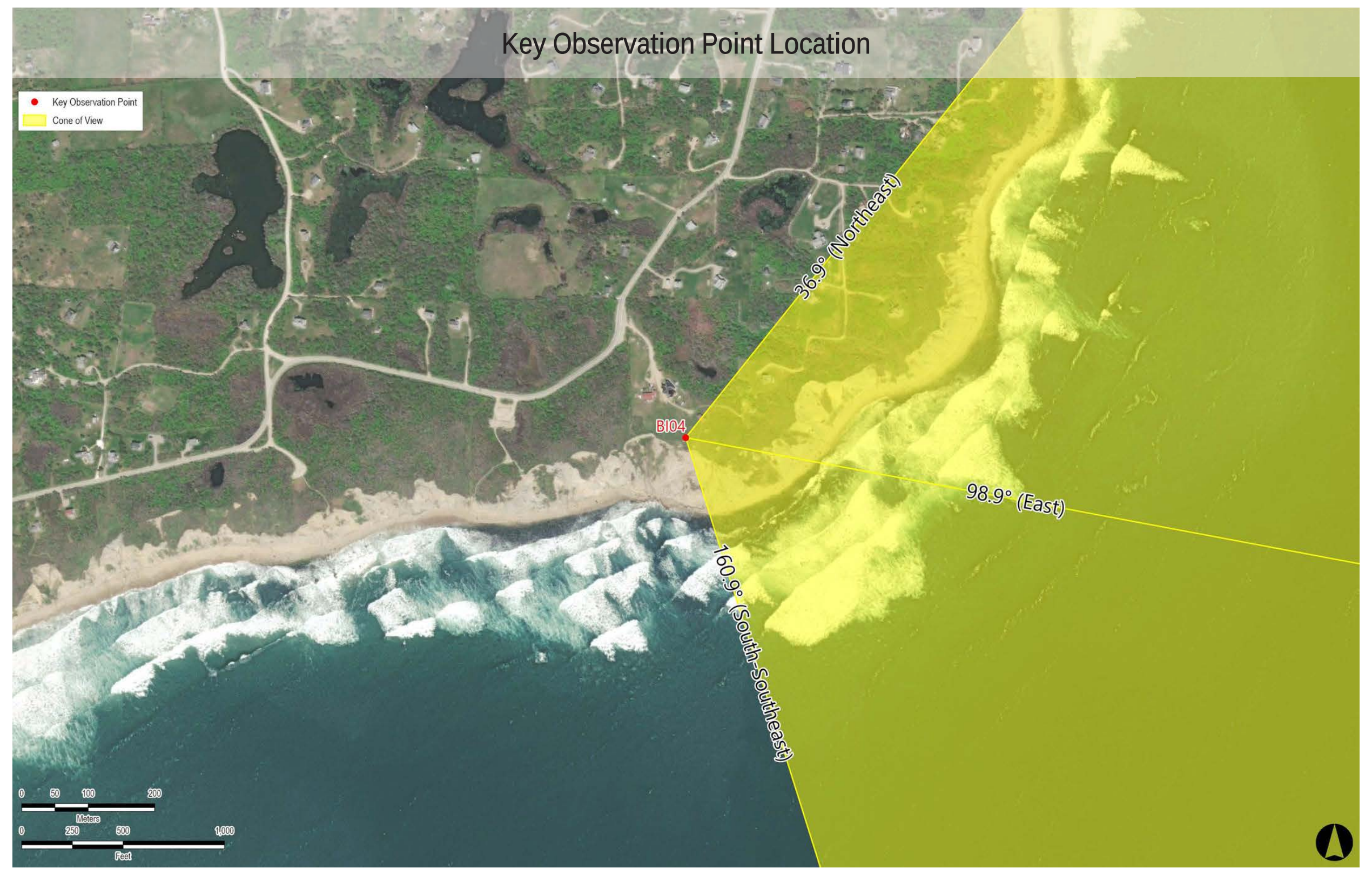
Sunrise Wind	2024	15 MW	123	123	16.9	38.8





Sunrise Wind | Powered by Ørsted & Eversource

Appendix A: Sunrise Wind Cumulative Visual Simulations

BI04: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: Full Lease Build-out Including Sunrise Wind

Environmental Data

Date Taken: 9/10/2017
Time: 12:20 PM
Temperature: 68°F
Humidity: 63%
Visibility: ≥10 miles
Wind Direction: Northeast
Wind Speed: 8 mph
Conditions Observed: Clear

Key Observation Point Information

County: Washington
Town: New Shoreham
State: Rhode Island
Location: Block Island
Latitude, Longitude: 41.15281° N, 71.55185° W
Direction of View (Center): East (98.9°)
Field of View: 124° x 55°

Camera Information

Camera: Canon EOS 5D Mark IV
Resolution: 30.4 Megapixels
Lens Focal Length: 50 mm
Camera Height: 161.1 feet AMSL

Visual Resources

Landscape Similarity Zone: Maintained Recreation Area, Coastal Bluff
User Group: Local Resident, Tourist/Vacationers
Aesthetic Resource: Southeast Light National Historic Landmark, Mohegan Bluffs Scenic Area

Notes:

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Simulation Size: 64” in width by 29.3” in height. Images should be viewed from a distance of 15 inches in order to obtain the proper perspective.

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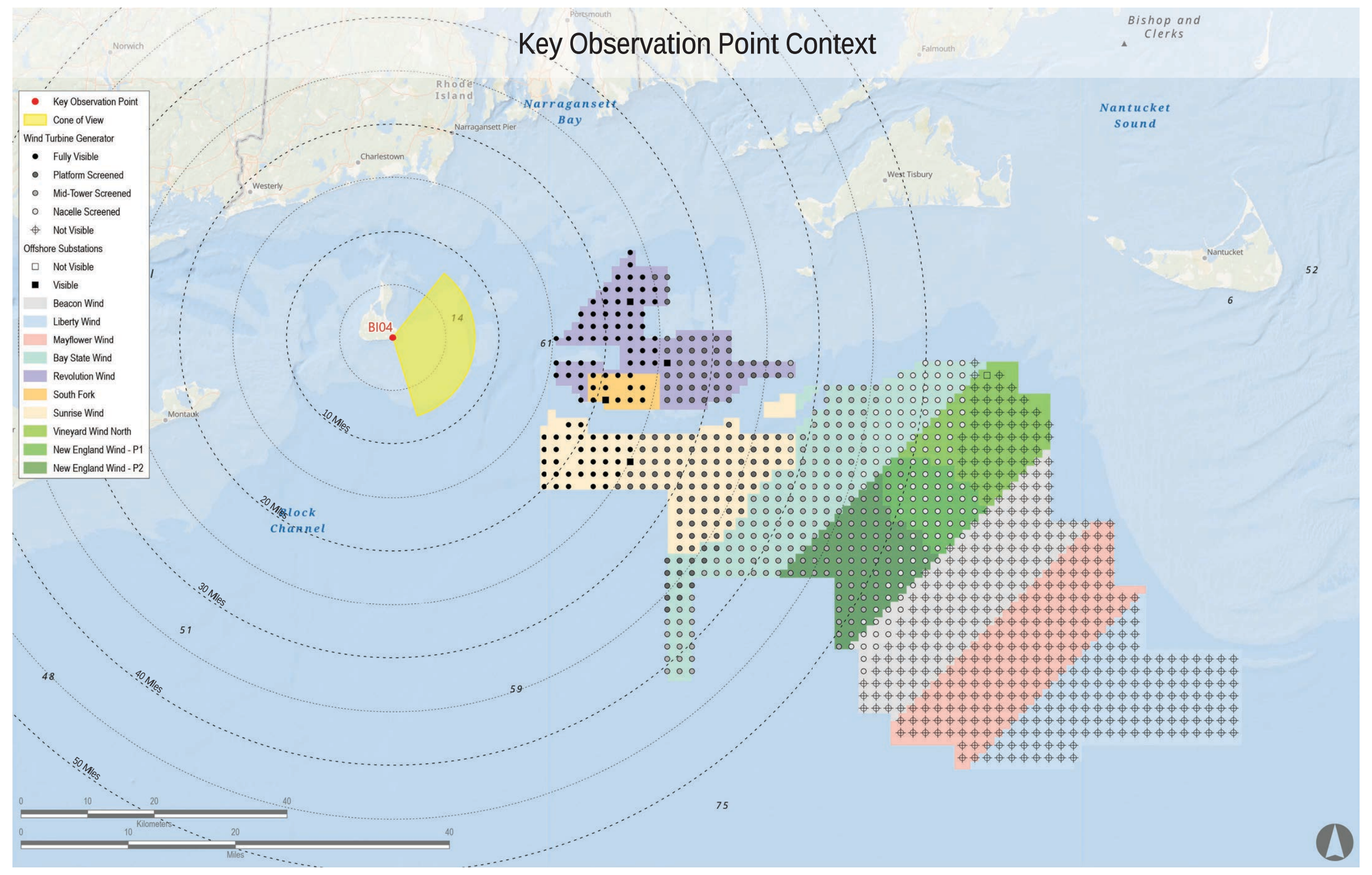
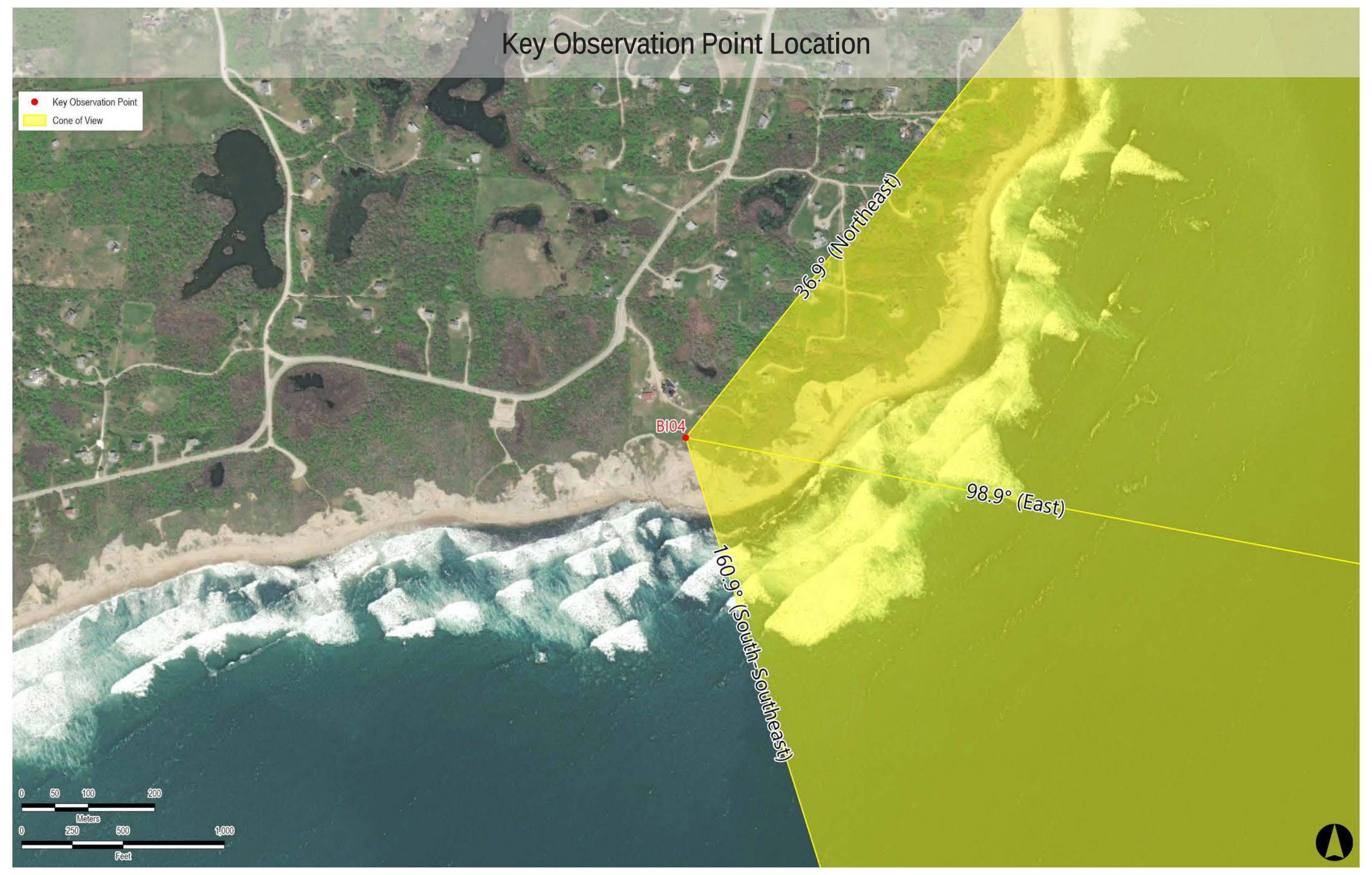
Reasonably Foreseeable Projects Represented in Visual Simulation

Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
South Fork Wind Farm	2023	12 MW	13	13	19.0	24.0
Vineyard Wind North	2023	14 MW	15	69	49.6	53.7
Revolution Wind	2023	12 MW	102	102	15.2	37.2
New England Wind Phase 1	2024	16 MW	41	41	48.0	56.6
New England Wind Phase 2	2024	19 MW	79	79	43.1	54.9
Sunrise Wind	2024	15 MW	123	123	16.9	38.8
Mayflower Wind	2024	12 MW	0	149	NA	NA
Liberty Wind	2025-2030	12 MW	0	139	NA	NA
Beacon Wind	2025-2030	12 MW	13	157	51.6	53.9
Bay State Wind	2025-2030	12 MW	183	185	33.0	53.3



Key Observation Point Context



Key Observation Point Location

Sunrise Wind | Powered by Ørsted & Eversource

Appendix A: Sunrise Wind Cumulative Visual Simulations

BI04: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: Full Lease Build-out Excluding Sunrise Wind

Environmental Data

Date Taken: 9/10/2017
Time: 12:20 PM
Temperature: 68°F
Humidity: 63%
Visibility: 10 miles
Wind Direction: Northeast
Wind Speed: 8 mph
Conditions Observed: Clear

Key Observation Point Information

County: Washington
Town: New Shoreham
State: Rhode Island
Location: Block Island
Latitude, Longitude: 41.15281° N, 71.55185° W
Direction of View (Center): East (98.9°)
Field of View: 124° x 55°

Camera Information

Camera: Canon EOS 5D Mark IV
Resolution: 30.4 Megapixels
Lens Focal Length: 50 mm
Camera Height: 161.1 feet AMSL

Visual Resources

Landscape Similarity Zone: Maintained Recreation Area, Coastal Bluff
User Group: Local Resident, Tourist/Vacationers
Aesthetic Resource: Southeast Light National Historic Landmark, Mohegan Bluffs Scenic Area

Notes:

- Photosimulation Size: 64” in width by 29.3” in height. Images should be viewed from 15 inches in order to obtain the proper perspective.
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Reasonably Foreseeable Projects Represented in Visual Simulation

Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
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Vineyard Wind North	2023	14 MW	15	69	49.6	53.7
Revolution Wind	2023	12 MW	102	102	15.2	37.2
New England Wind Phase 1	2024	16 MW	41	41	48.0	56.6
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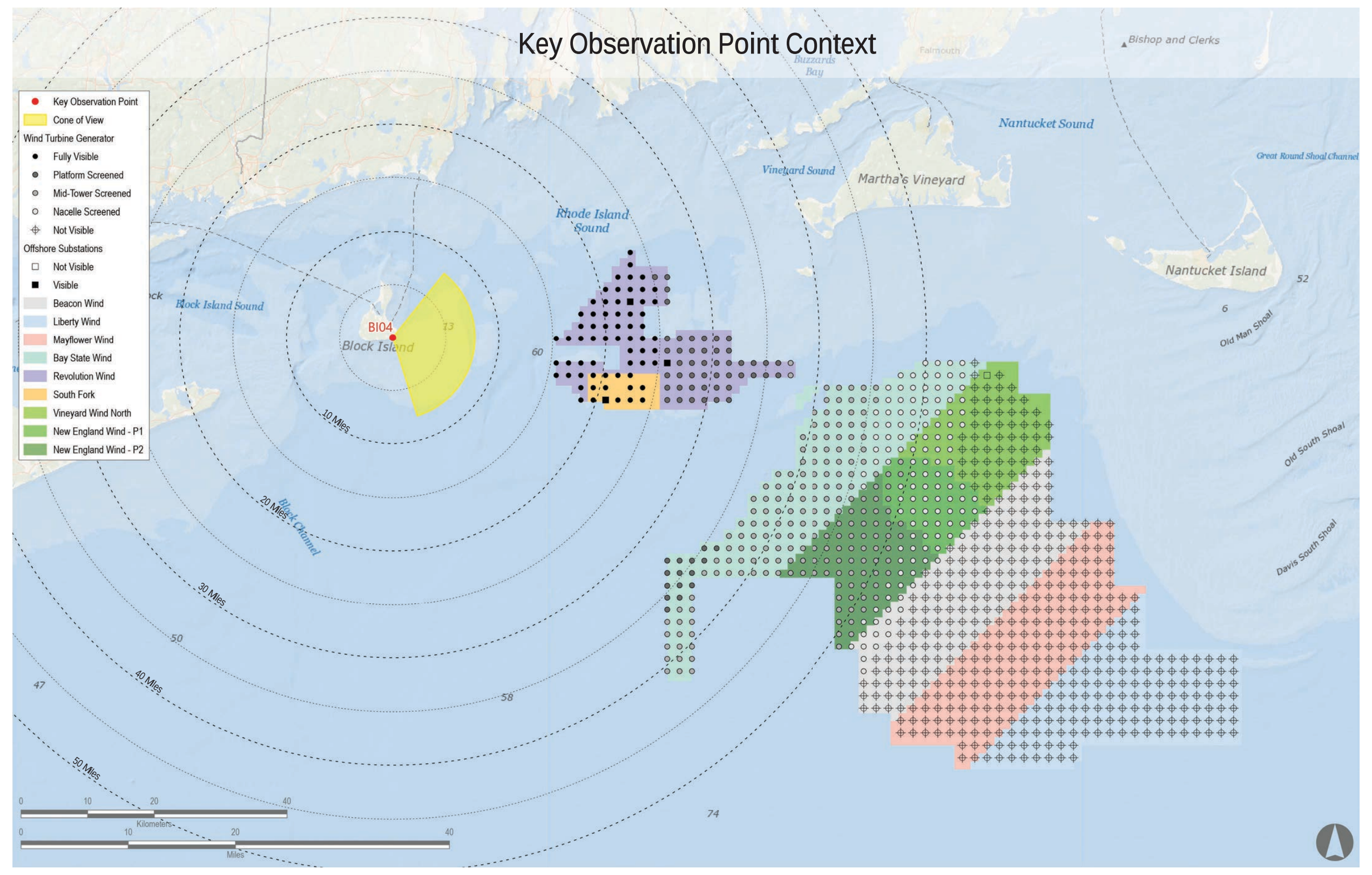
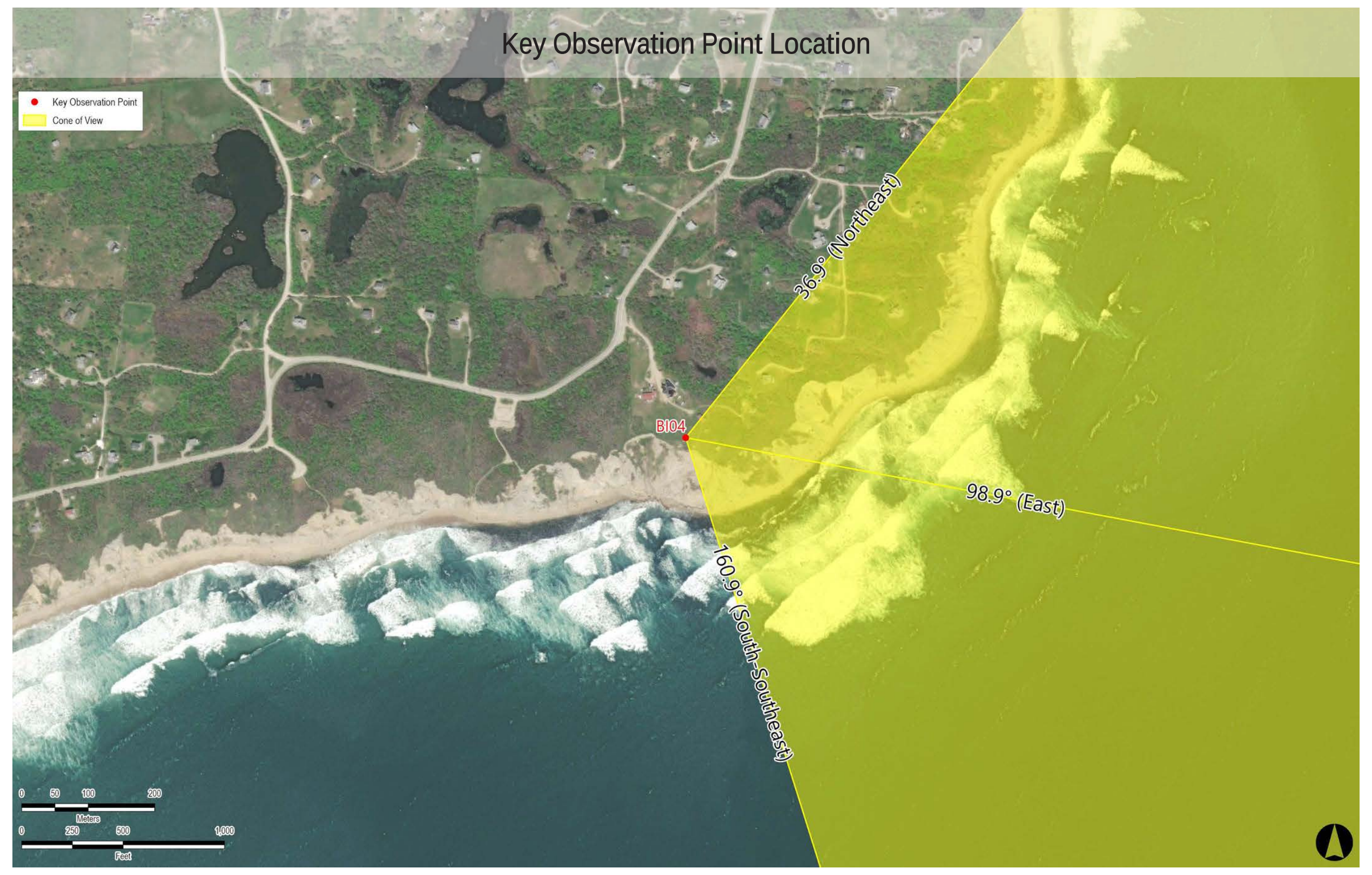
Mayflower Wind	2024	12 MW	0	149	NA	NA
Liberty Wind	2025-2030	12 MW	0	139	NA	NA
Beacon Wind	2025-2030	12 MW	13	157	51.6	53.9
Bay State Wind	2025-2030	12 MW	183	185	33.0	53.3

Key Observation Point Context



Key Observation Point Location



Simulation Size: 64” in width by 29.3” in height. Images should be viewed from a distance of 15 inches in order to obtain the proper perspective.

This box should be exactly 1” long on the printed panorama

Sunrise Wind | Powered by Ørsted & Eversource

Appendix A: Sunrise Wind Cumulative Visual Simulations

BI04: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: Sunrise Wind Without Other Foreseeable Future Changes

Simulation Size: 64” in width by 29.3” in height. Images should be viewed from a distance of 15 inches in order to obtain the proper perspective.

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Environmental Data

Date Taken: 9/10/2017
Time: 12:20 PM
Temperature: 68°F
Humidity: 63%
Visibility: ≥10 miles
Wind Direction: Northeast
Wind Speed: 8 mph
Conditions Observed: Clear

Camera Information

Camera: Canon EOS 5D Mark IV
Resolution: 30.4 Megapixels
Lens Focal Length: 50 mm
Camera Height: 161.1 feet AMSL

Key Observation Point Information

County: Washington
Town: New Shoreham
State: Rhode Island
Location: Block Island
Latitude, Longitude: 41.15281° N, 71.55185° W
Direction of View (Center): East (98.9°)
Field of View: 124° x 55°

Visual Resources

Landscape Similarity Zone: Maintained Recreation Area, Coastal Bluff
User Group: Local Resident, Tourist/Vacationers
Aesthetic Resource: Southeast Light National Historic Landmark, Mohegan Bluffs Scenic Area

Notes:

- Photosimulation Size: 64” in width by 29.3” in height. Images should be viewed from 15 inches in order to obtain the proper perspective.
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Reasonably Foreseeable Projects Represented in Visual Simulation

Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
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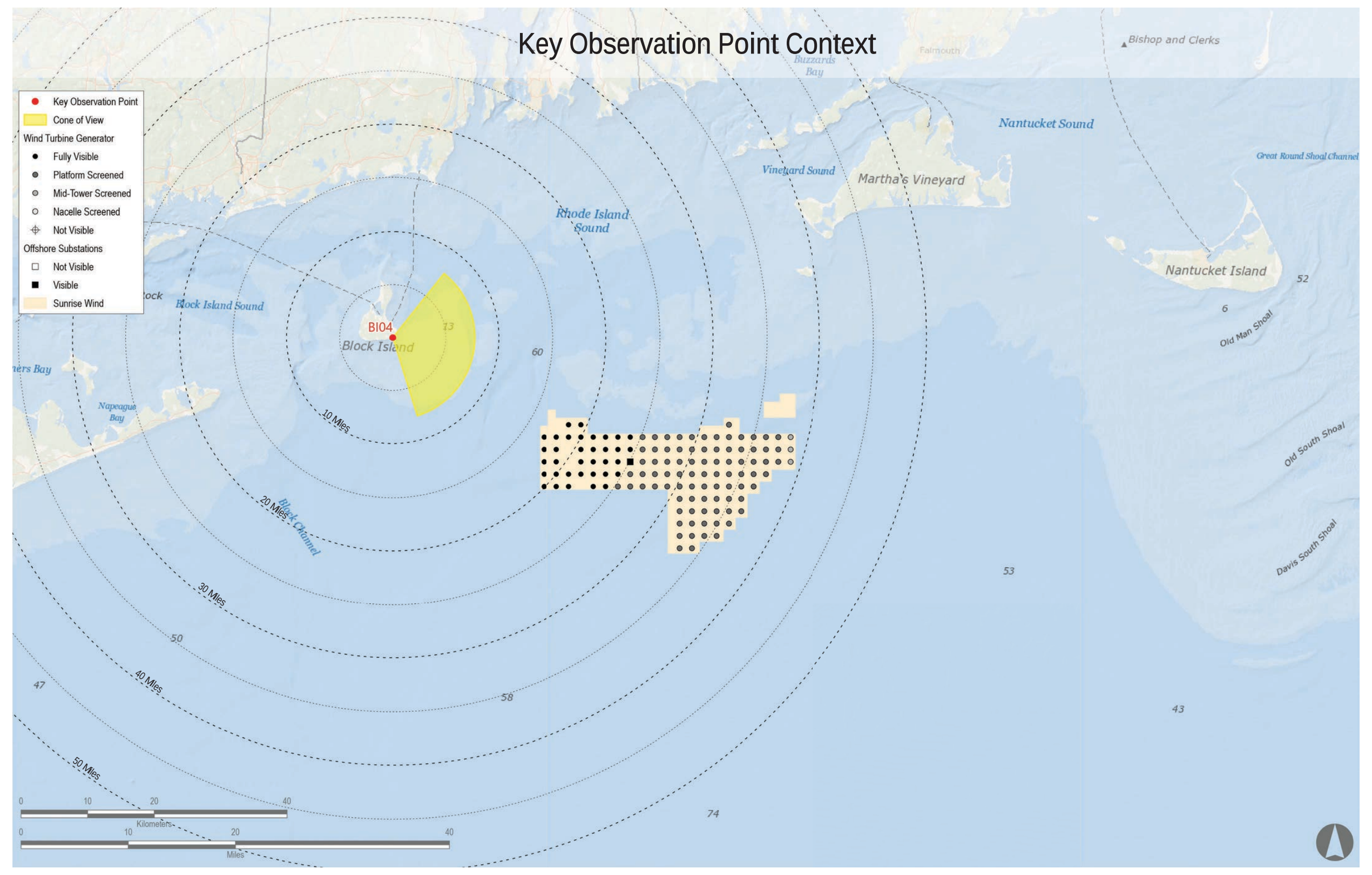

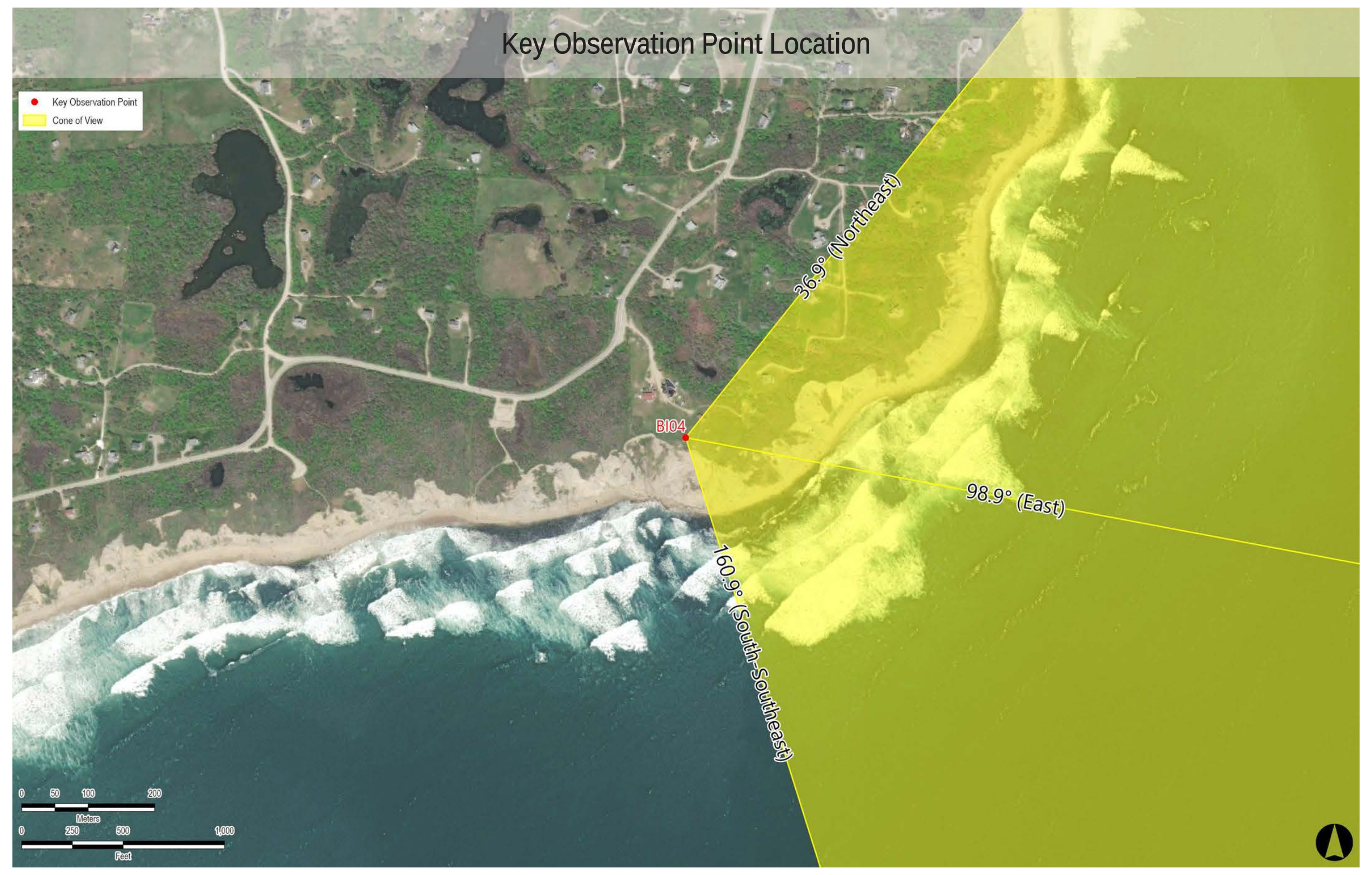

Sunrise Wind | Powered by Ørsted & Eversource

Appendix A: Sunrise Wind Cumulative Visual Simulations

BI04 Night: Southeast Lighthouse, New Shoreham, Rhode Island

Existing Conditions

Simulation Size: 64” in width by 29.3” in height. Images
should be viewed from a distance of 15 inches
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This box should
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Environmental Data

Date Taken: 9/10/2017
Temperature: 61°F
Humidity: 93%
Visibility: ≥ 10 miles
Wind Direction: North-Northwest
Wind Speed: 6 mph
Conditions Observed: Fair

Key Observation Point Information

County: Washington
Town: New Shoreham
State: Rhode Island
Location: Block Island
Latitude, Longitude: 41.15281° N, 71.55185° W
Direction of View (Center): East (98.9°)
Field of View: 124° x 55°

Camera Information

Camera: Canon EOS 5D Mark IV
Resolution: 30.4 Megapixels
Lens Focal Length: 50 mm
Camera Height: 161.1 feet AMSL

Visual Resources

Landscape Similarity Zone: Maintained Recreation Area, Coastal Bluff
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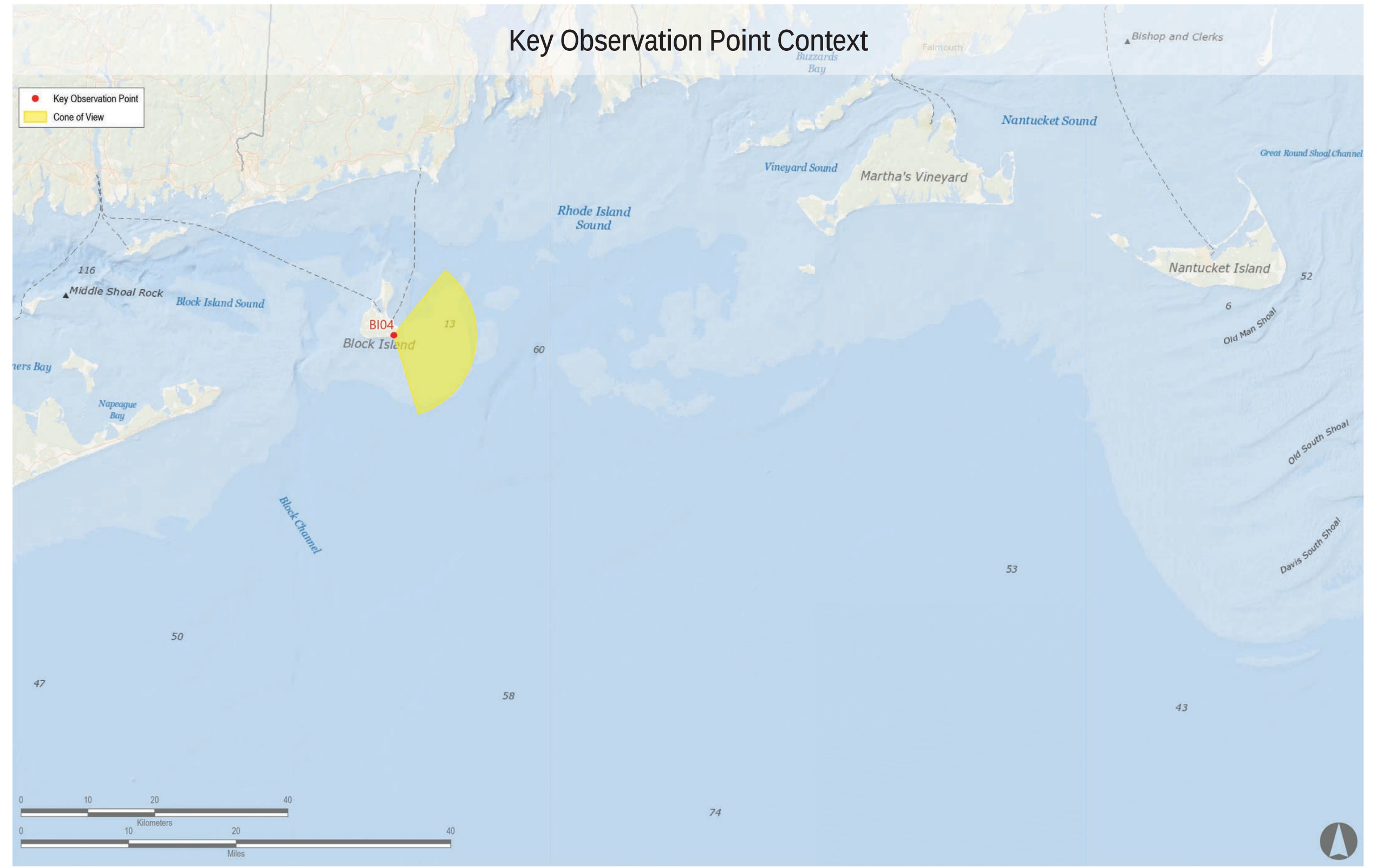

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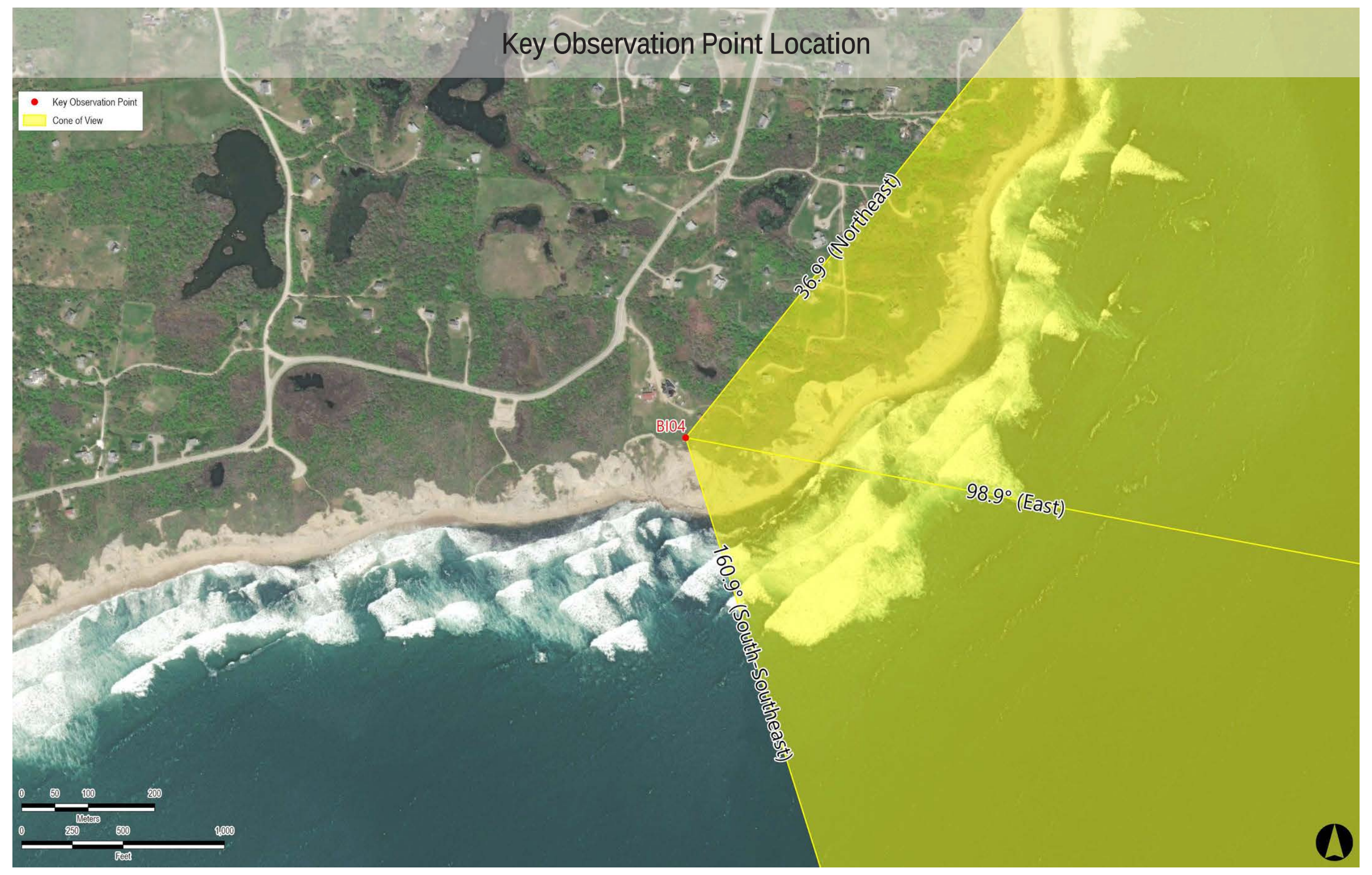

Key Observation Point Location

Sunrise Wind | Powered by Ørsted & Eversource

Appendix A: Sunrise Wind Cumulative Visual Simulations

BI04 Night: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: 2023 and 2024 Project Construction (Revolution Wind, South Fork Wind, Vineyard Wind North, and New England Wind Phase 1&2)

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Visibility: 1≥ 0 miles
Wind Direction: North-Northwest
Wind Speed: 6 mph
Conditions Observed: Fair

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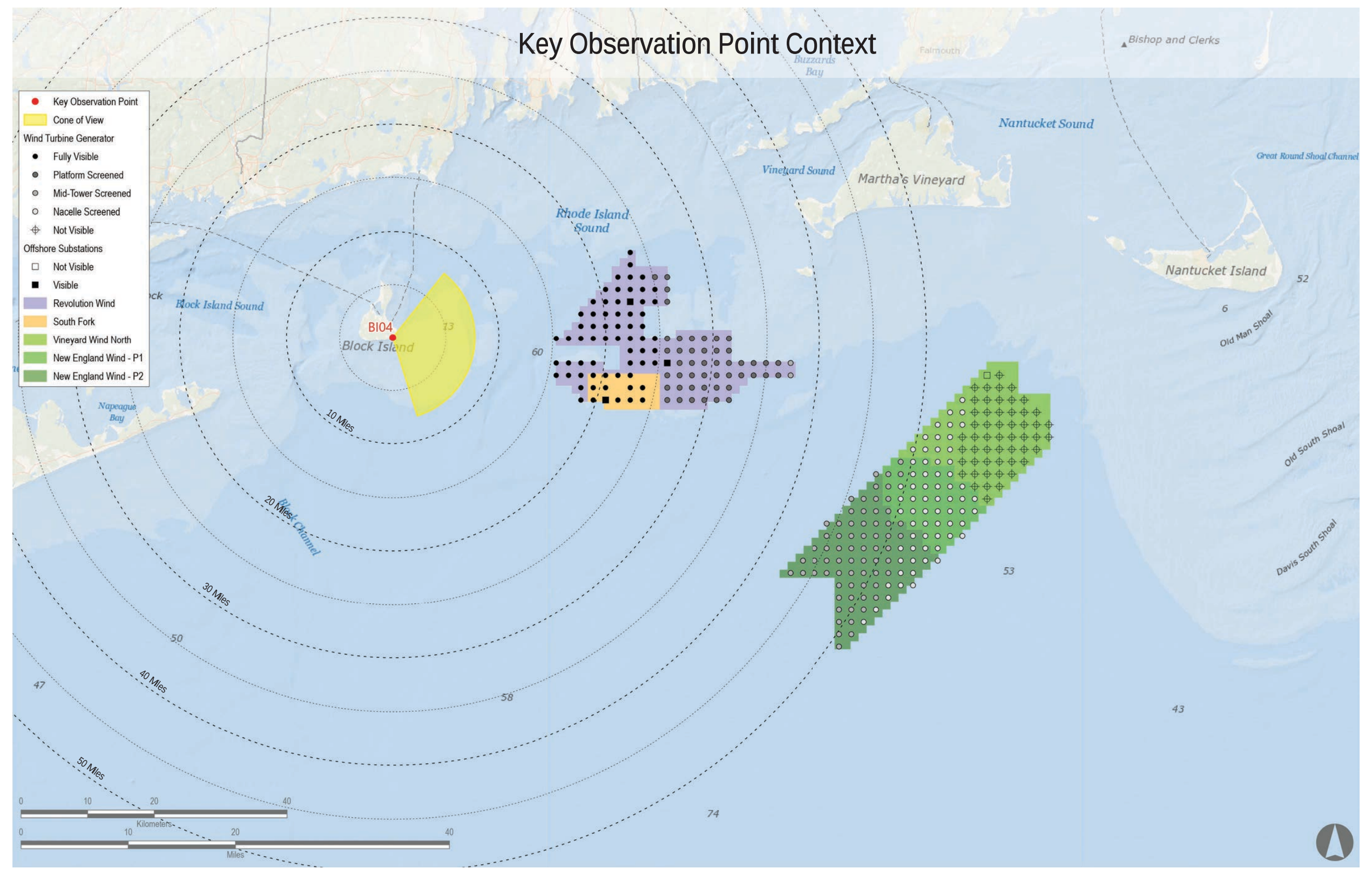

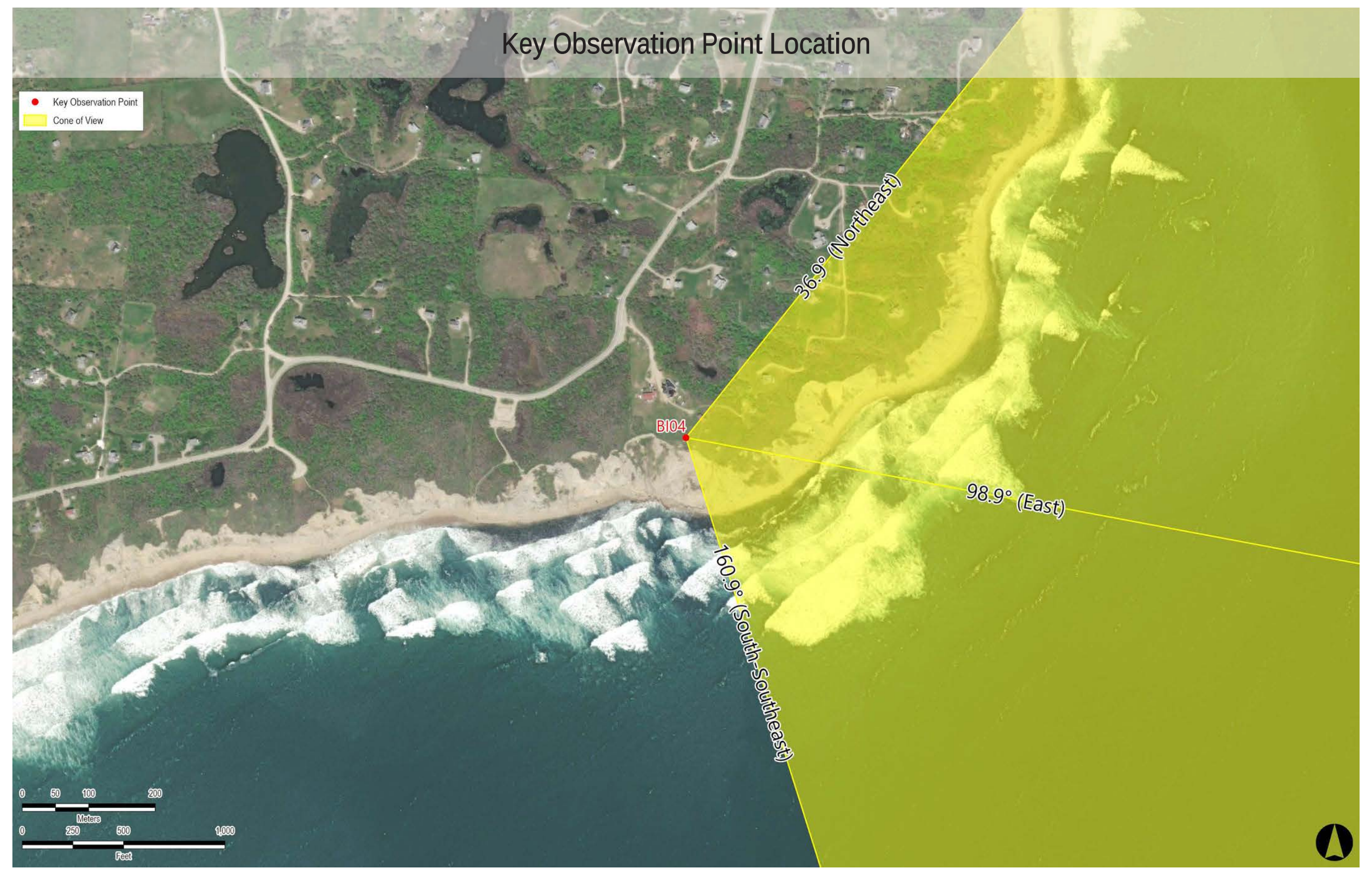

Sunrise Wind | Powered by Ørsted & Eversource

Appendix A: Sunrise Wind Cumulative Visual Simulations

BI04 Night: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: 2023 and 2024 Project Construction with Sunrise Wind added (Sunrise Wind, Revolution Wind, South Fork Wind, Vineyard Wind North, and New England Wind Phase 1&2)

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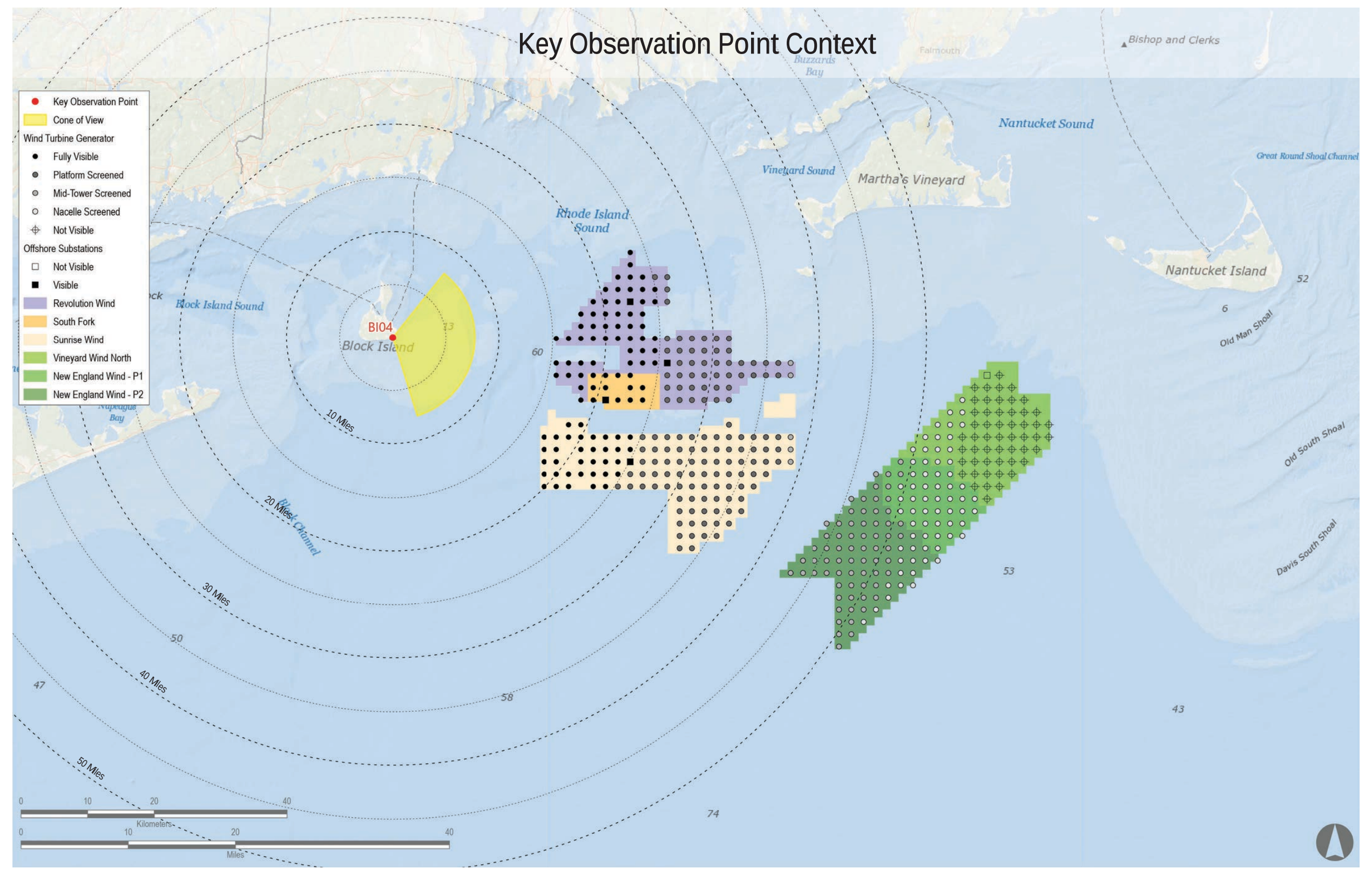
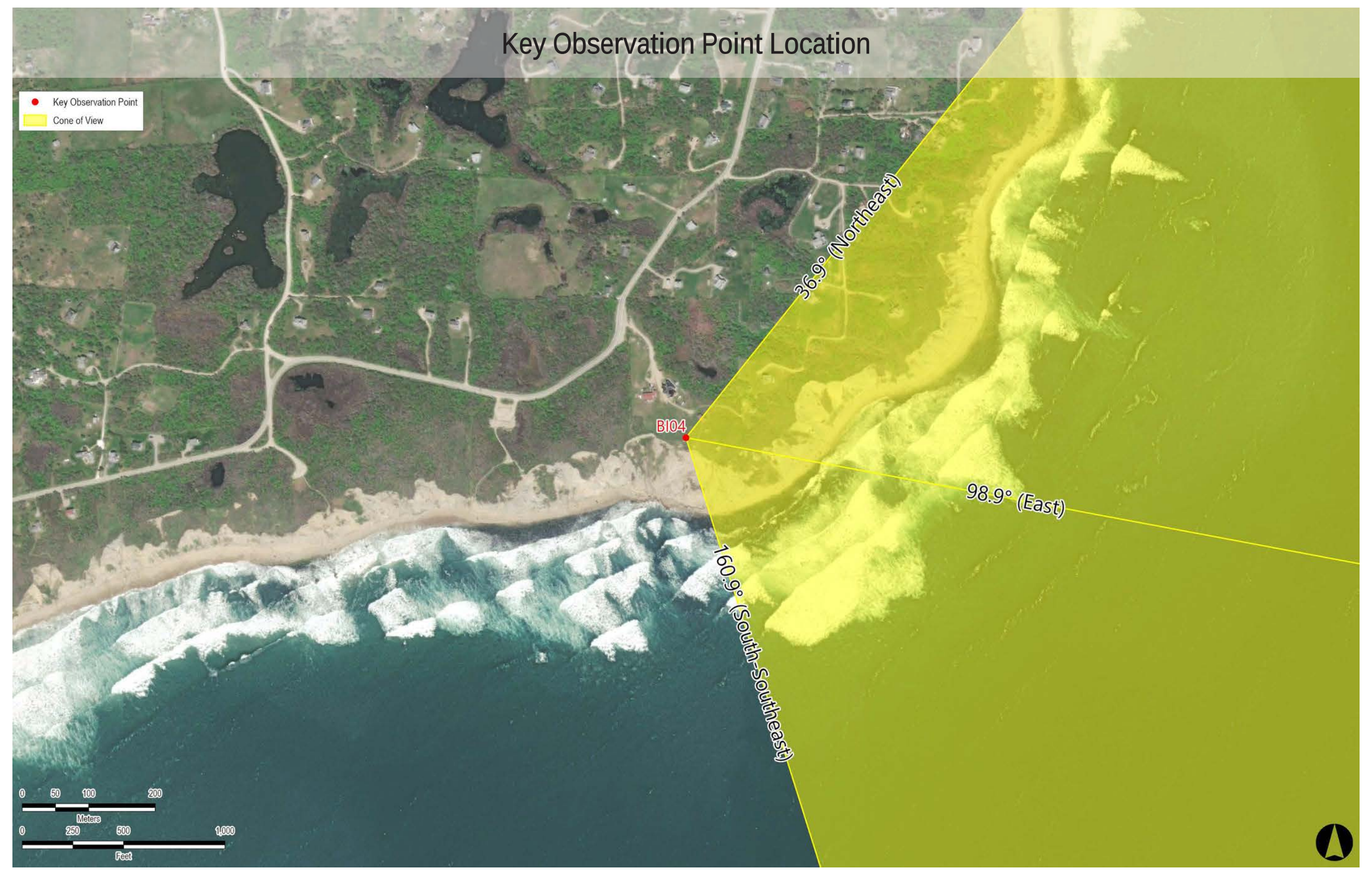
- Offshore Substation location and dimensions are based on preliminary publicly available project data. Projects for which this data is not currently available, WTGs are used for all foundation positions. OSS positions and dimensions considered in this photosimulation are subject to potential modification.
- Nighttime photosimulations are digitally adjusted from daytime photographs. Nighttime photographs captured at each represented KOP inform the presence or lack of existing light sources.
- The existing WTGs associated with the Block Island Wind Farm are 16.9 miles from KOP LI04. In the daytime photosimulation, the WTGs appear faint due to atmospheric perspective commonly occurring on clear days such as the conditions illustrated in this photosimulation. In order to illustrate maximum potential visibility of the proposed WTG, this degree of atmospheric perspective is not applied to the photosimulations.
- Photographs were not obtained from NL01 during field review due to public access restrictions. In place of an actual photograph from this location, EDR created a virtual three-dimensional (3D) model of the island.

Reasonably Foreseeable Projects Represented in Visual Simulation

Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
South Fork Wind Farm	2023	12 MW	13	13	19.0	24.0
Vineyard Wind North	2023	14 MW	0	69	NA	NA
Revolution Wind	2023	12 MW	102	102	15.2	37.2
New England Wind Phase 1	2024	16 MW	4	41	48.0	48.8
New England Wind Phase 2	2024	19 MW	58	79	43.1	50.7
Sunrise Wind	2024	15 MW	123	123	16.9	38.2





Sunrise Wind
Powered by Ørsted & Eversource

Appendix A: Sunrise Wind Cumulative Visual Simulations

BI04 Night: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: Full Lease Build-out Including Sunrise Wind

Simulation Size: 64” in width by 29.3” in height. Images should be viewed from a distance of 15 inches in order to obtain the proper perspective.

This box should be exactly 1” long on the printed panorama

Environmental Data

Date Taken: 9/10/2017
Temperature: 61°F
Humidity: 93%
Visibility: 1≥ 0 miles
Wind Direction: North-Northwest
Wind Speed: 6 mph
Conditions Observed: Fair

Key Observation Point Information

County: Washington
Town: New Shoreham
State: Rhode Island
Location: Block Island
Latitude, Longitude: 41.15281° N, 71.55185° W
Direction of View (Center): East (98.9°)
Field of View: 124° x 55°

Camera Information

Camera: Canon EOS 5D Mark IV
Resolution: 30.4 Megapixels
Lens Focal Length: 50 mm
Camera Height: 161.1 feet AMSL

Visual Resources

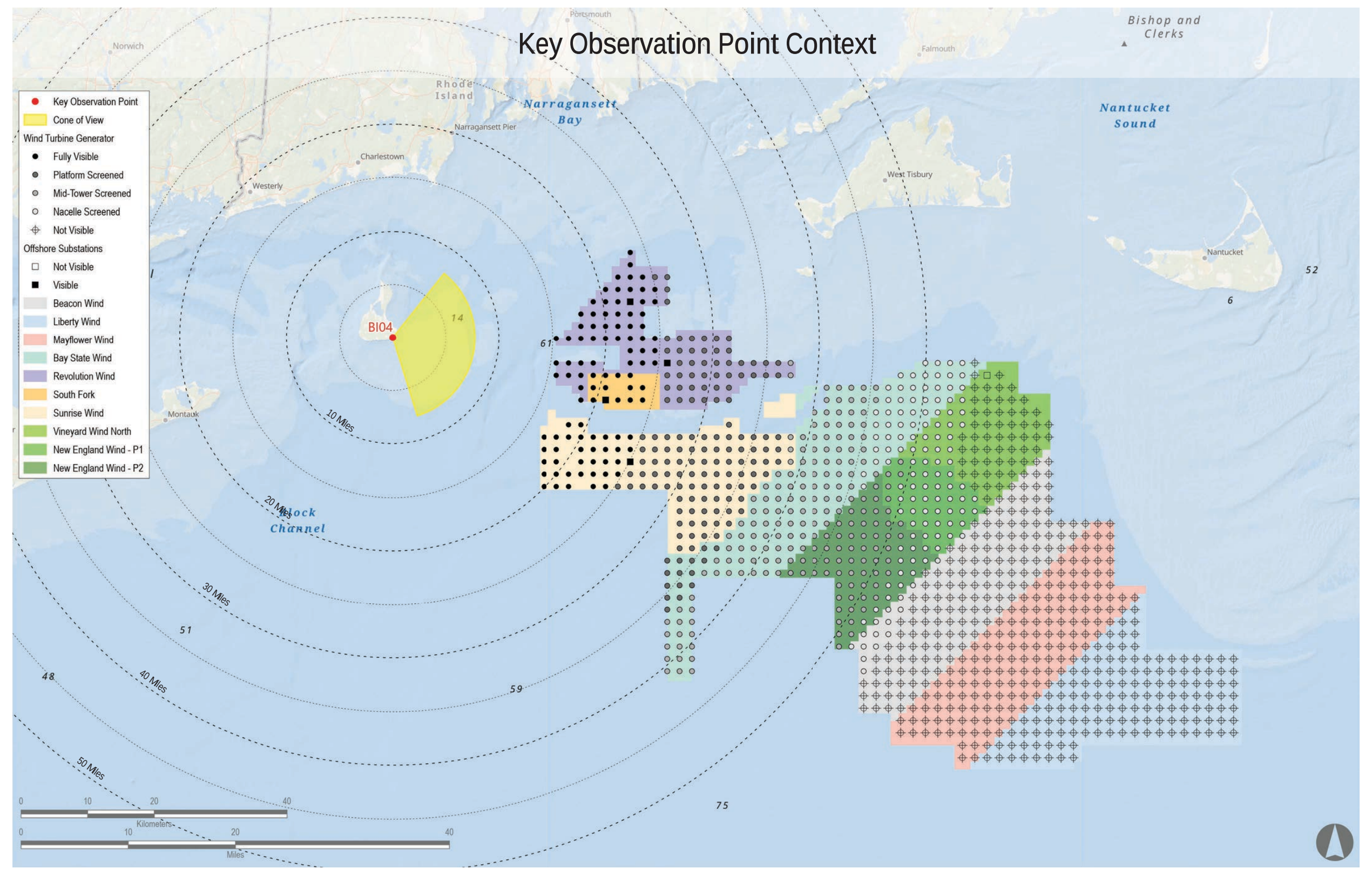
Landscape Similarity Zone: Maintained Recreation Area, Coastal Bluff
User Group: Local Resident, Tourist/Vacationers
Aesthetic Resource: Southeast Light National Historic Landmark, Mohegan Bluffs Scenic Area

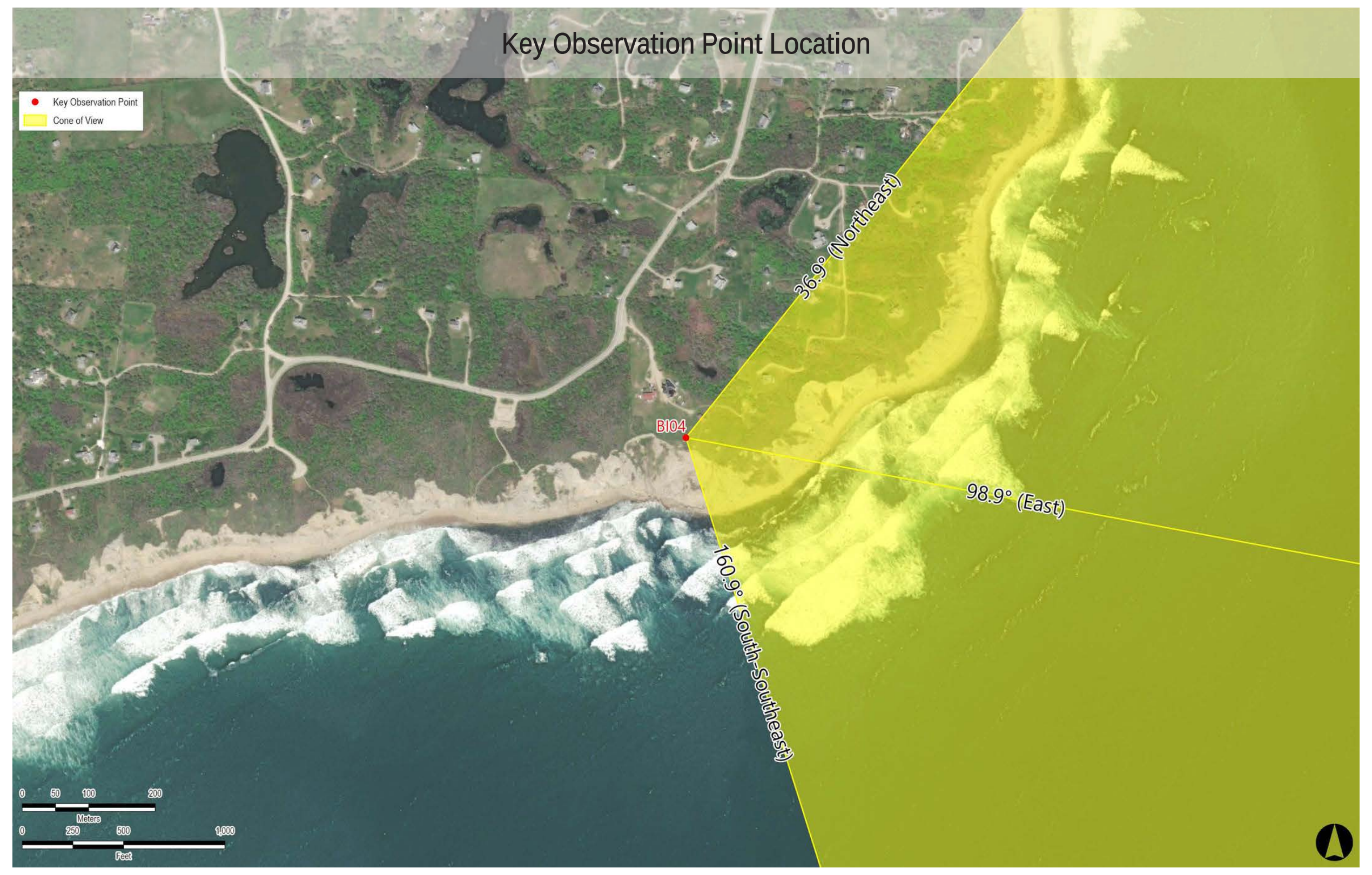
Notes:

- Photosimulation Size: 64” in width by 29.3” in height. Images should be viewed from 15 inches in order to obtain the proper perspective.
- The potential number of WTGs and OSSs screened from view was calculated using a curvature of the earth model based on the distance, viewer height, and maximum structure height. This analysis does not consider the screening effects of intervening vegetation, structures, and topography.
- Offshore Substation location and dimensions are based on preliminary publicly available project data. Projects for which this data is not currently available, WTGs are used for all foundation positions. OSS positions and dimensions considered in this photosimulation are subject to potential modification.
- Nighttime photosimulations are digitally adjusted from daytime photographs. Nighttime photographs captured at each represented KOP inform the presence or lack of existing light sources.
- The existing WTGs associated with the Block Island Wind Farm are 16.9 miles from KOP LI04. In the daytime photosimulation, the WTGs appear faint due to atmospheric perspective commonly occurring on clear days such as the conditions illustrated in this photosimulation. In order to illustrate maximum potential visibility of the proposed WTG, this degree of atmospheric perspective is not applied to the photosimulations.
- Photographs were not obtained from NL01 during field review due to public access restrictions. In place of an actual photograph from this location, EDR created a virtual three-dimensional (3D) model of the island.

Reasonably Foreseeable Projects Represented in Visual Simulation

Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
South Fork Wind Farm	2023	12 MW	13	13	19.0	24.0
Vineyard Wind North	2023	14 MW	0	69	NA	NA
Revolution Wind	2023	12 MW	102	102	15.2	37.2
New England Wind Phase 1	2024	16 MW	4	41	48.0	48.8
New England Wind Phase 2	2024	19 MW	58	79	43.1	50.7
Sunrise Wind	2024	15 MW	123	123	16.9	38.2
Mayflower Wind	2024	12 MW	0	149	NA	NA
Liberty Wind	2025-2030	12 MW	0	139	NA	NA
Beacon Wind	2025-2030	12 MW	0	157	NA	NA
Bay State Wind	2025-2030	12 MW	134	185	33.0	45.0





Sunrise Wind
Powered by Ørsted & Eversource

Appendix A: Sunrise Wind Cumulative Visual Simulations

BI04 Night: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: Full Lease Build-out Excluding Sunrise Wind

Simulation Size: 64” in width by 29.3” in height. Images should be viewed from a distance of 15 inches in order to obtain the proper perspective.

This box should be exactly 1” long on the printed panorama

Environmental Data

Date Taken: 9/10/2017
Temperature: 61°F
Humidity: 93%
Visibility: >10 miles
Wind Direction: North-Northwest
Wind Speed: 6 mph
Conditions Observed: Fair

Key Observation Point Information

County: Washington
Town: New Shoreham
State: Rhode Island
Location: Block Island
Latitude, Longitude: 41.15281° N, 71.55185° W
Direction of View (Center): East (98.9°)
Field of View: 124° x 55°

Camera Information

Camera: Canon EOS 5D Mark IV
Resolution: 30.4 Megapixels
Lens Focal Length: 50 mm
Camera Height: 161.1 feet AMSL

Visual Resources

Landscape Similarity Zone: Maintained Recreation Area, Coastal Bluff
User Group: Local Resident, Tourist/Vacationers
Aesthetic Resource: Southeast Light National Historic Landmark, Mohegan Bluffs Scenic Area

Notes:

- Photosimulation Size: 64” in width by 29.3” in height. Images should be viewed from 15 inches in order to obtain the proper perspective.
- The potential number of WTGs and OSSs screened from view was calculated using a curvature of the earth model based on the distance, viewer height, and maximum structure height. This analysis does not consider the screening effects of intervening vegetation, structures, and topography.
- Offshore Substation location and dimensions are based on preliminary publicly available project data. Projects for which this data is not currently available, WTGs are used for all foundation positions. OSS positions and dimensions considered in this photosimulation are subject to potential modification.
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- Photographs were not obtained from NL01 during field review due to public access restrictions. In place of an actual photograph from this location, EDR created a virtual three-dimensional (3D) model of the island.

Reasonably Foreseeable Projects Represented in Visual Simulation

Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
South Fork Wind Farm	2023	12 MW	13	13	19.0	24.0
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New England Wind Phase 1	2024	16 MW	4	41	48.0	48.8
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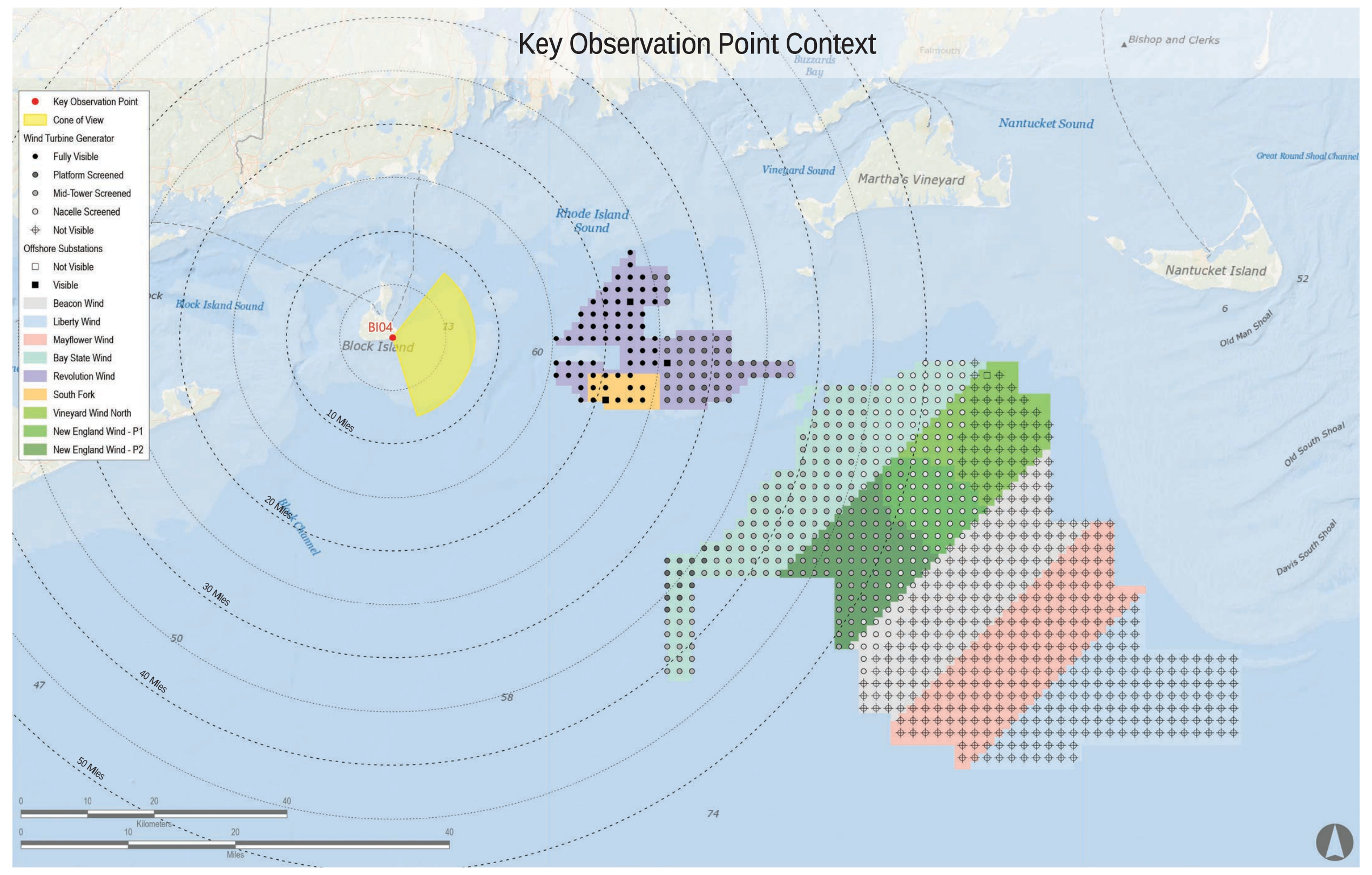
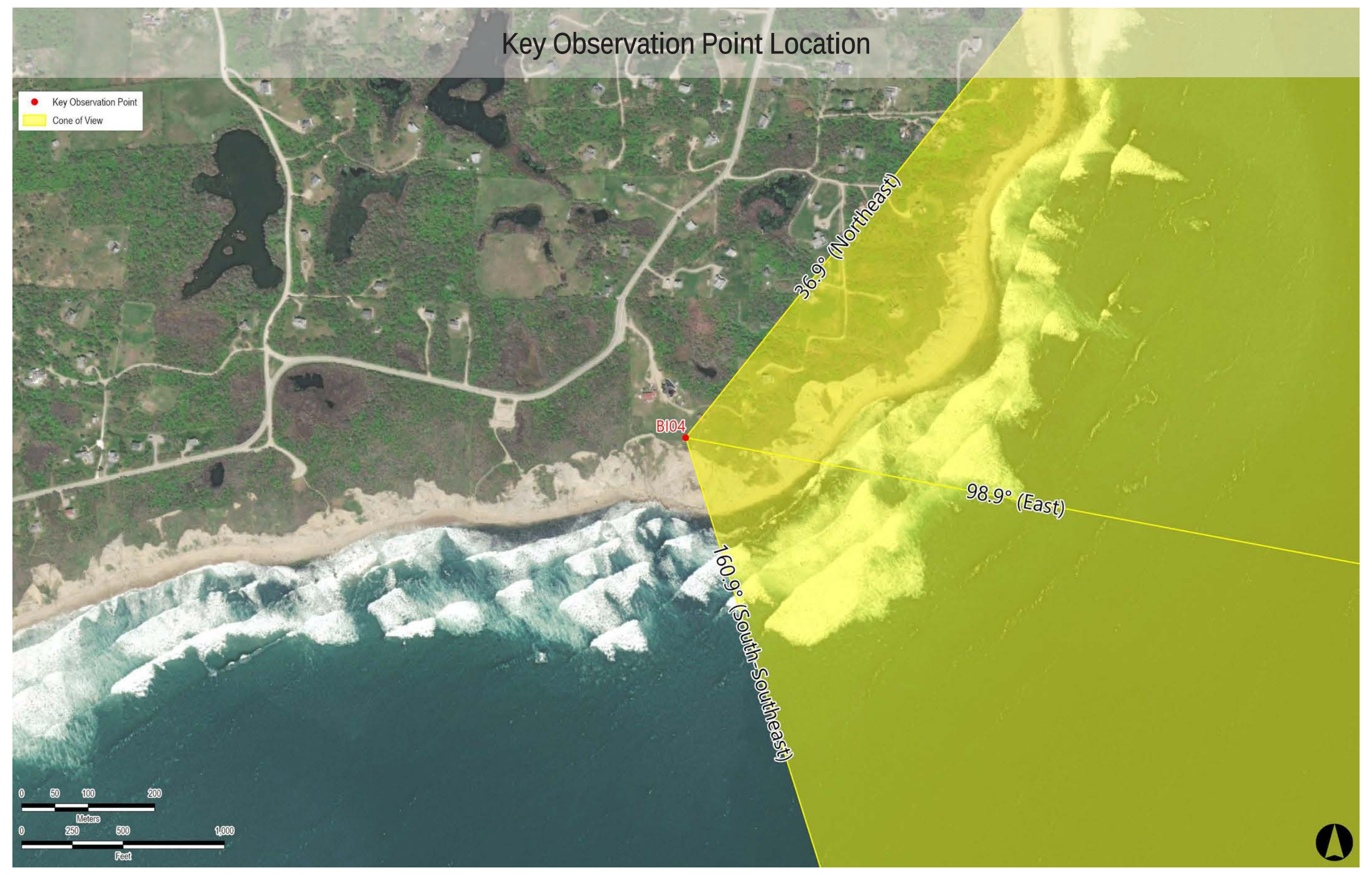
Mayflower Wind	2024	12 MW	0	149	NA	NA
Liberty Wind	2025-2030	12 MW	0	139	NA	NA
Beacon Wind	2025-2030	12 MW	0	157	NA	NA
Bay State Wind	2025-2030	12 MW	134	185	33.0	45.0





Sunrise Wind | Powered by Ørsted & Eversource

Appendix A: Sunrise Wind Cumulative Visual Simulations

BI04 Night: Southeast Lighthouse, New Shoreham, Rhode Island

Visual Simulation: Sunrise Wind Without Other Foreseeable Future Changes

Environmental Data

Date Taken: 9/10/2017
Temperature: 61°F
Humidity: 93%
Visibility: 1 0 miles
Wind Direction: North-Northwest
Wind Speed: 6 mph
Conditions Observed: Fair

Key Observation Point Information

County: Washington
Town: New Shoreham
State: Rhode Island
Location: Block Island
Latitude, Longitude: 41.15281° N, 71.55185° W
Direction of View (Center): East (98.9°)
Field of View: 124° x 55°

Camera Information

Camera: Canon EOS 5D Mark IV
Resolution: 30.4 Megapixels
Lens Focal Length: 50 mm
Camera Height: 161.1 feet AMSL

Visual Resources

Landscape Similarity Zone: Maintained Recreation Area, Coastal Bluff
User Group: Local Resident, Tourist/Vacationers
Aesthetic Resource: Southeast Light National Historic Landmark, Mohegan Bluffs Scenic Area

Notes:

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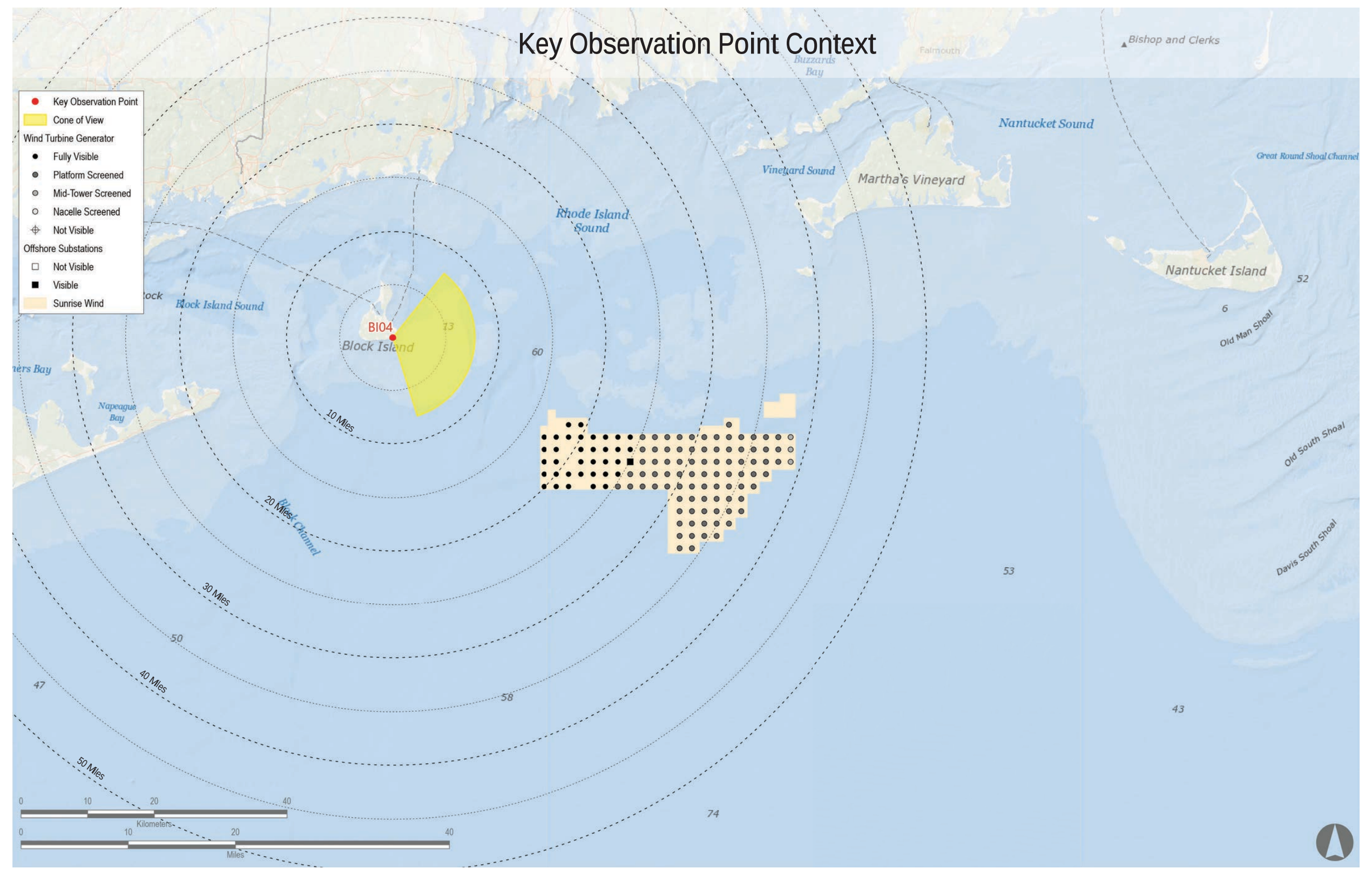
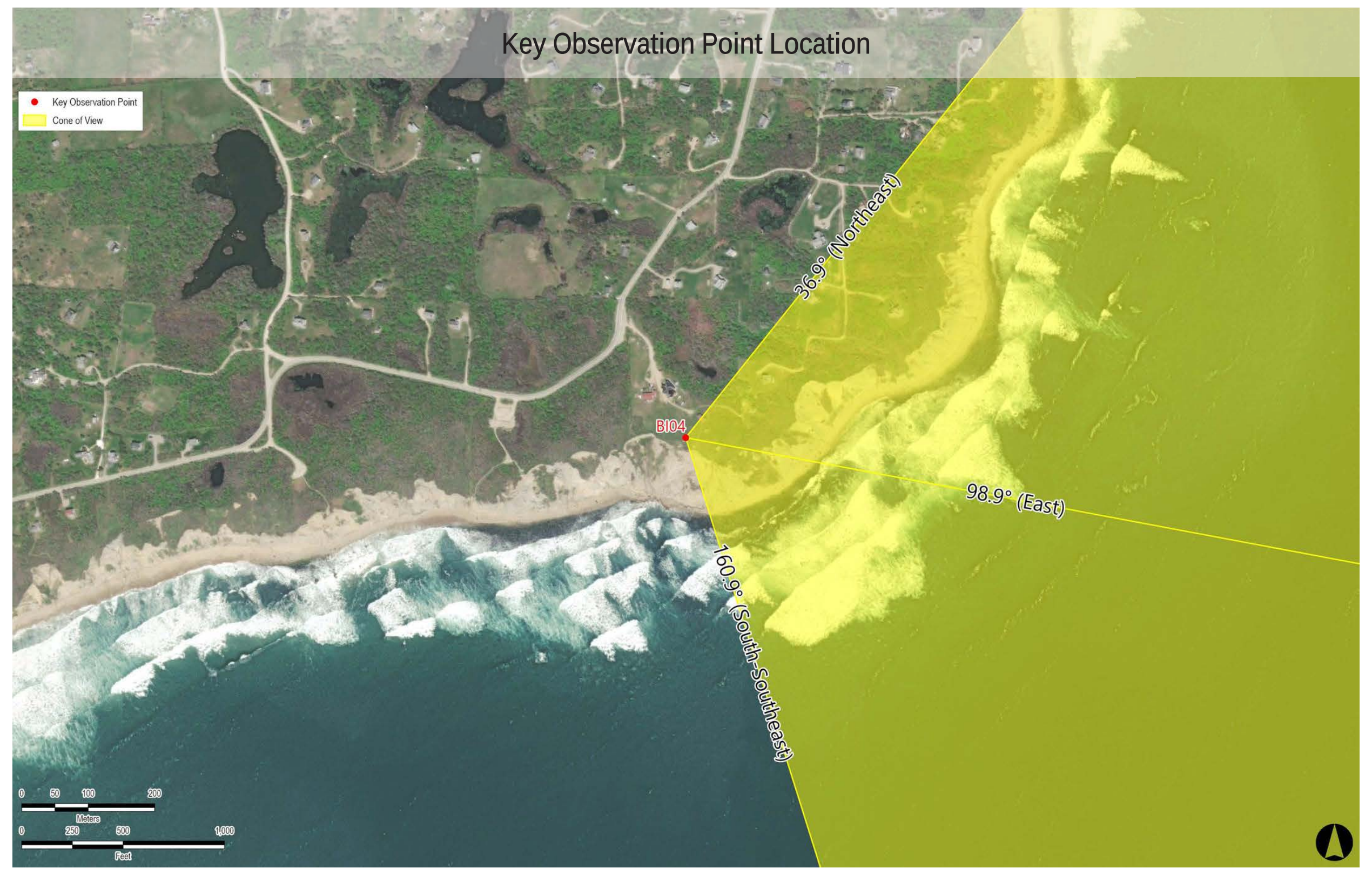
- Photographs were not obtained from NL01 during field review due to public access restrictions. In place of an actual photograph from this location, EDR created a virtual three-dimensional (3D) model of the island.

Reasonably Foreseeable Projects Represented in Visual Simulation

Project	Year of Development	WTG Model	Potential Number of WTGs & OSSs Visible*	Total Number of WTGs & OSSs in Project	Distance to Nearest Visible WTG (miles)	Distance to Furthest Visible WTG (miles)
Sunrise Wind	2024	15 MW	123	123	16.9	38.2



Key Observation Point Context



Key Observation Point Location

Simulation Size: 64" in width by 29.3" in height. Images should be viewed from a distance of 15 inches in order to obtain the proper perspective.

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